

ABSTRACT

A surge protection element for a conventional cable connector includes a printed circuit board preferably shaped as two concentric rings connected by two spokes. The outer ring is electrically connected to the grounded portion of the cable connector body. A printed circuit trace on one of the spokes is separated from a printed circuit trace on the inner ring by a spark gap. If a high voltage surge is carried by the coaxial cable transmission line, a spark is formed in the gap. As a consequence, the high voltage surge is transferred to the surge protection element which in turn conducts the electricity to the grounded body of the connector.